

AMENDMENT

Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

1. (Presently amended) An isolated antimicrobial peptide of ~~not more than 50~~12-37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8),
NLRRIIRKIIHIKKY (SEQ ID NO 9),
NIRRIIRKIIHIKKY (SEQ ID NO: 10),
LRRIIRKIIHIKK-NH₂ (SEQ ID NO: 11),
LRRIIRKIIHIKK (SEQ ID NO: 12),
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),
IRRIIRKIIHIKK (SEQ ID NO: 14),
LRRIIRKIIHIK-NH₂ (SEQ ID NO: 15),
RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),
RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),
GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),
RKFRNKIKEKLKKIG (SEQ ID NO: 24),
KIKEKLKKIGQKIQG (SEQ ID NO: 25),
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

~~RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH₂ (SEQ ID NO: 27),~~ and
KNLRRIIRKIIHIKKYGPTILRIIRIG-NH₂ (SEQ ID NO: 28).

2. (Canceled)
3. (Twice amended) A pharmaceutical composition comprising an antimicrobial peptide of ~~not more than 50~~12 to 37 residues, the peptide comprising an amino acid sequence selected from the group consisting of:

KNLRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8),
NLRRIIRKIIHIKKY (SEQ ID NO 9),
NIRRIIRKIIHIKKY (SEQ ID NO: 10),
LRRIRKIIHIKK-NH₂ (SEQ ID NO: 11),
LRRIRKIIHIKK (SEQ ID NO: 12),
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),
IRRIIRKIIHIKK (SEQ ID NO: 14),
LRRIRKIIHIK-NH₂ (SEQ ID NO: 15),
RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),
RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),
GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19),
KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20),
RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),
RKFRNKIKEKLKKIG (SEQ ID NO: 24),
KIKEKLKKIGQKIQG (SEQ ID NO: 25),
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

~~RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH₂~~ (SEQ ID NO: 27), and
KNLRRIIRKIIHIIKKYGPTILRIIRIG-NH₂ (SEQ ID NO: 28),
formulated in a pharmaceutically acceptable carrier.

4-31. (Canceled)

32. (New) An antimicrobial peptide consisting of the sequence
RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH₂ (SEQ ID NO: 27).
33. (New) A pharmaceutical composition comprising (a) an antimicrobial peptide consisting
of the sequence RGLRRLGRKIAHGVKKYGPTVLRIRIA-NH₂ (SEQ ID NO: 27), and
(b) a pharmaceutically acceptable carrier.
34. (New) An antimicrobial peptide consisting of the sequence KNLRRIIRKIIHIIKKYG-
NH₂ (SEQ ID NO: 1).
35. (New) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIIKKYG-NH₂ (SEQ ID NO: 6).
36. (New) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIIKKYG (SEQ ID NO: 7).
37. (New) The antimicrobial peptide of claim 1, consisting of the sequence
KNLRRIIRKIIHIIKKYG (SEQ ID NO: 8).
38. (New) The antimicrobial peptide of claim 1, consisting of the sequence
NLRRIIRKIIHIIKKY (SEQ ID NO 9).
39. (New) The antimicrobial peptide of claim 1, consisting of the sequence
NIRRIIRKIIHIIKKY (SEQ ID NO: 10).

40. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIIKK-NH₂ (SEQ ID NO: 11).
41. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIIKK (SEQ ID NO: 12).
42. (New) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIIKK-NH₂ (SEQ ID NO: 13).
43. (New) The antimicrobial peptide of claim 1, consisting of the sequence IRRIRKIIHIIKK (SEQ ID NO: 14).
44. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIIK-NH₂ (SEQ ID NO: 15).
45. (New) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIIKK-NH₂ (SEQ ID NO: 16).
46. (New) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIIK-NH₂ (SEQ ID NO: 17).
47. (New) The antimicrobial peptide of claim 1, consisting of the sequence GLRKRLRKFRNKIKEKLKKIG (SEQ ID NO: 19).
48. (New) The antimicrobial peptide of claim 1, consisting of the sequence KRLRKFRNKIKEKLKKIG (SEQ ID NO: 20).
49. (New) The antimicrobial peptide of claim 1, consisting of the sequence RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21).

50. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22).
51. (New) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23).
52. (New) The antimicrobial peptide of claim 1, consisting of the sequence RKFRNKIKEKLKKIG (SEQ ID NO: 24).
53. (New) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (New) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQGLL (SEQ ID NO: 26).
55. (New) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIRKIIHIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).